

Schaltung	Board No.	Diagram
Y-Eingänge, Teilerschalter, Vorverstärker	1, 2	Y Inputs, Attenuators, Preamplifiers
Y-Zwischenverstärker, Kanalschaltung, Kalibrator	3	Y Intermediate Amplifiers, Channel Selection, Calibrator
Trigger-Schaltung, TV-Sync-Separator	3, 5	Trigger Circuit, TV Sync Separator
Zeitbasis	5	Timebase
Y-Endverstärker	3	Y Final Amplifier, X Final Amplifier
Beschaltung Kathodenstrahlröhre, Helltastung	5, 6	CRT Circuit, Unblanking
Netzteil	3, 5	Power Supply
Netztrafo	7	Mains/Line Transformer
Potentiometer für Helligkeit, Fokus, X-Position, Hold-Off	4	Potentiometer for Intensity, Focus, X-Position, Hold-Off

Abkürzungen / Abbreviations

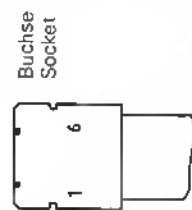
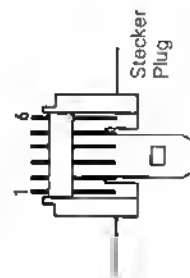
A...	Gerätestecker	/ Appliance inlet
B...	Brückengleichrichter	/ Bridge rectifier
C...	Kondensator	/ Capacitor
Cp...	Testpunkt	/ Check point
Cv...	Steckverbinder	/ Connector
CT...	Kathodenstrahlröhre	/ Cathode-ray tube
D...	Diode	/ Diode
E...	Lötöse	/ Eyelet
F...	Sicherung	/ Fuse
IC...	Integr. Schaltung	/ Integrated Circuit
L...	Spule, Drossel	/ Inductor, Coil
LED...	Leuchtdiode	/ Light emitting diode
NTC...	NTC-Widerstand	/ NTC resistor
P...	Stecker	/ Plug
R...	Widerstand	/ Resistor
S...	Schalter	/ Switch
T...	Transistor	/ Transistor
TR...	Transformator	/ Transformer
VC...	Trimmkondensator	/ Variable capacitor
VR...	Potentiometer	/ Variable resistor
VVC...	Kapazitätsdiode	/ Voltage variable capacitor
W...	Draht	/ Wire
Z...	Zenerdiode	/ Z-Diode

XY-Board  
P2-3/1

3..

Widerstand- / Resistor identification

	Widerstand / Resistor 0.25W 2% (carbon film)
	Widerstand / Resistor 0.25W 1% tc = 50 · 10 <sup>-6</sup> /K (metal film)
	Widerstand / Resistor 0.25W 0.5% tc = 50 · 10 <sup>-6</sup> /K (metal film)
	Widerstand / Resistor 0.5W 2% (carbon film)
	Widerstand / Resistor 4W 2% tc = 400 · 10 <sup>-6</sup> /K (metal oxide film)



EY2-Board  
W2-3/1

2..

Beispiel: P2-3/1-5 bzw. W2-3/1-5

- P = Flachkabelstecker (auf Board ...)
- W = Flachkabelverbindung eine Seite verlötet, andere Seite Buchsenleiste
- 2-3 = Verbindung zwischen Board 2 und Board 3
- 1 = 1. Flachkabelverbindung zwischen Board 2 und 3
- 5 = Draht-Nummer des Flachkabels

Example: P2-3/1-5 or W2-3/1-5 respectively

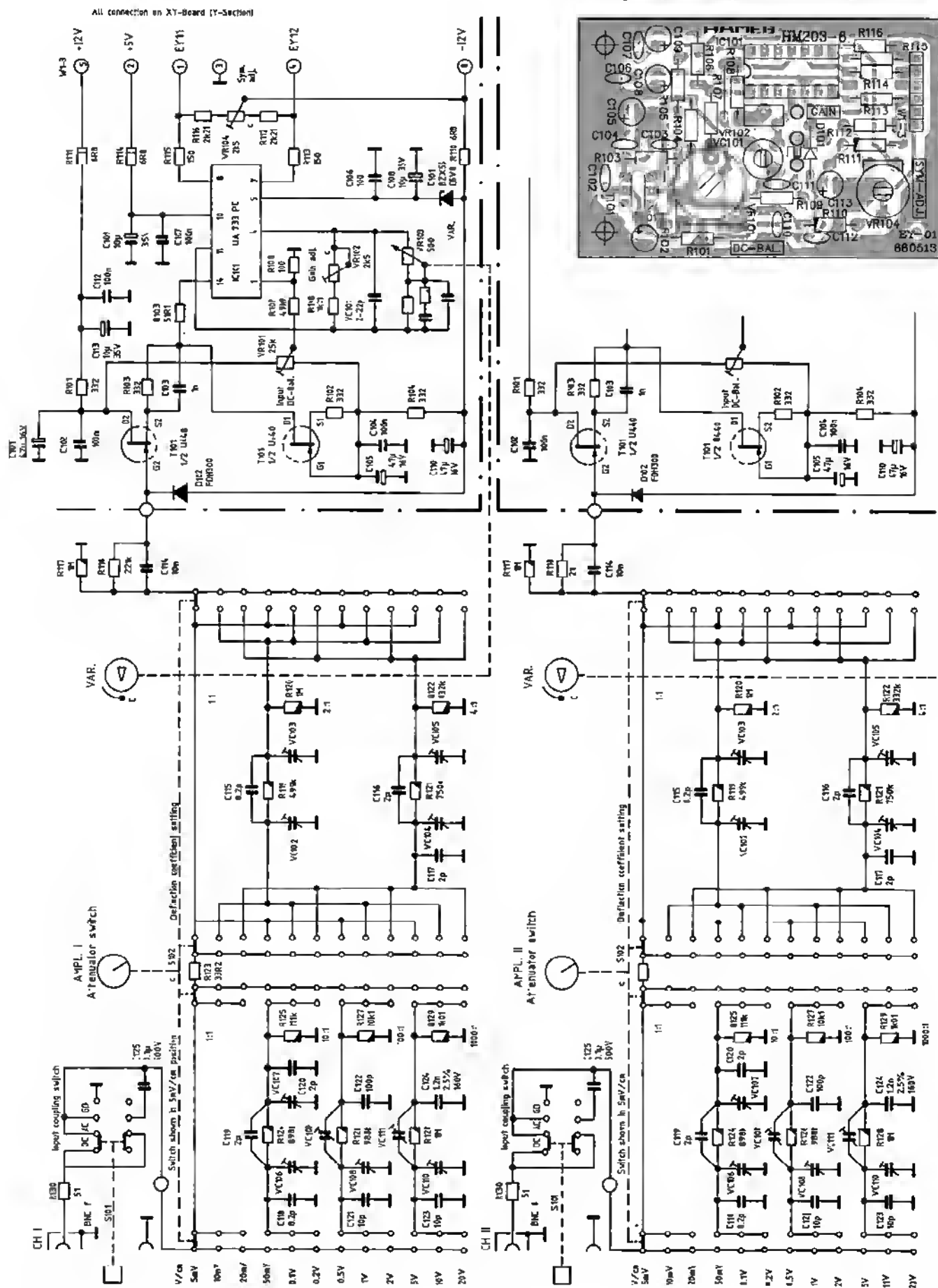
- P = Flat cable plug (soldered on board)
- W = Flat cable wiring (directly soldered on board) with socket (movable)
- 2-3 = Connector between Board 2 and Board 3
- 1 = First flat cable connection between Board 2 and 3
- 5 = Serial number of the wire (in the flat cable)

Farbkennzeichnung der Anschlußdrähte / Color-Abbreviations for insulated wire

bk = schwarz / black	ye = gelb / yellow	gr = grau / grey
bn = braun / brown	gn = grün / green	wh = weiß / white
rd = rot / red	bl = blau / blue	trp = transparent / transparent
or = orange / orange	vi = violett / violet	grny = grün-gelb / green-yellow stripe

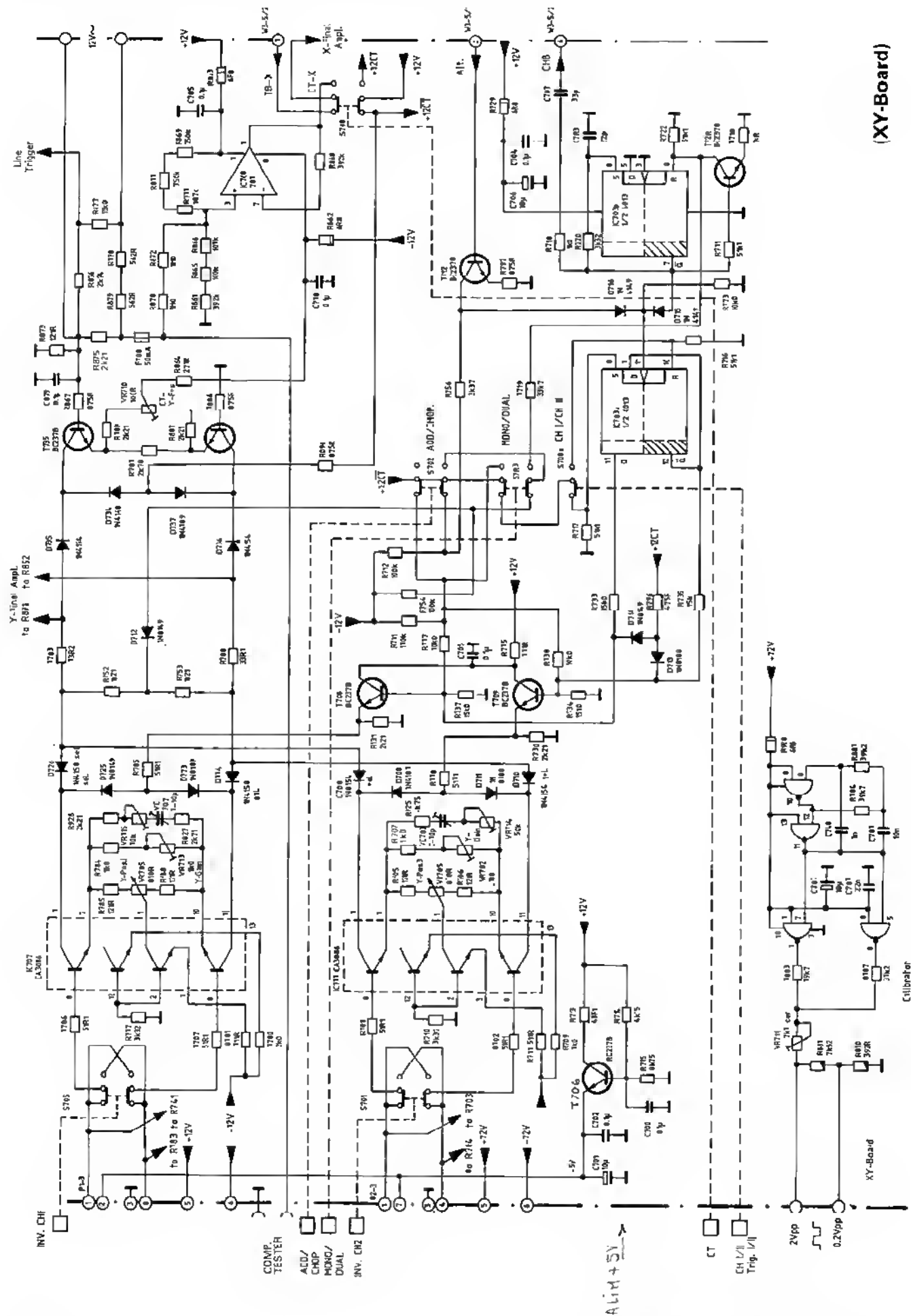
Anschlußfolge der Transistoren	BF 199 BF 440	BF 422 BF 423	BF 458 BF 459 BUX 8687 BD 232	BSX 19	U 440	78XXCU
Terminals of Transistors						
Ansicht von unten Bottom View						
Ansicht von oben Top View						

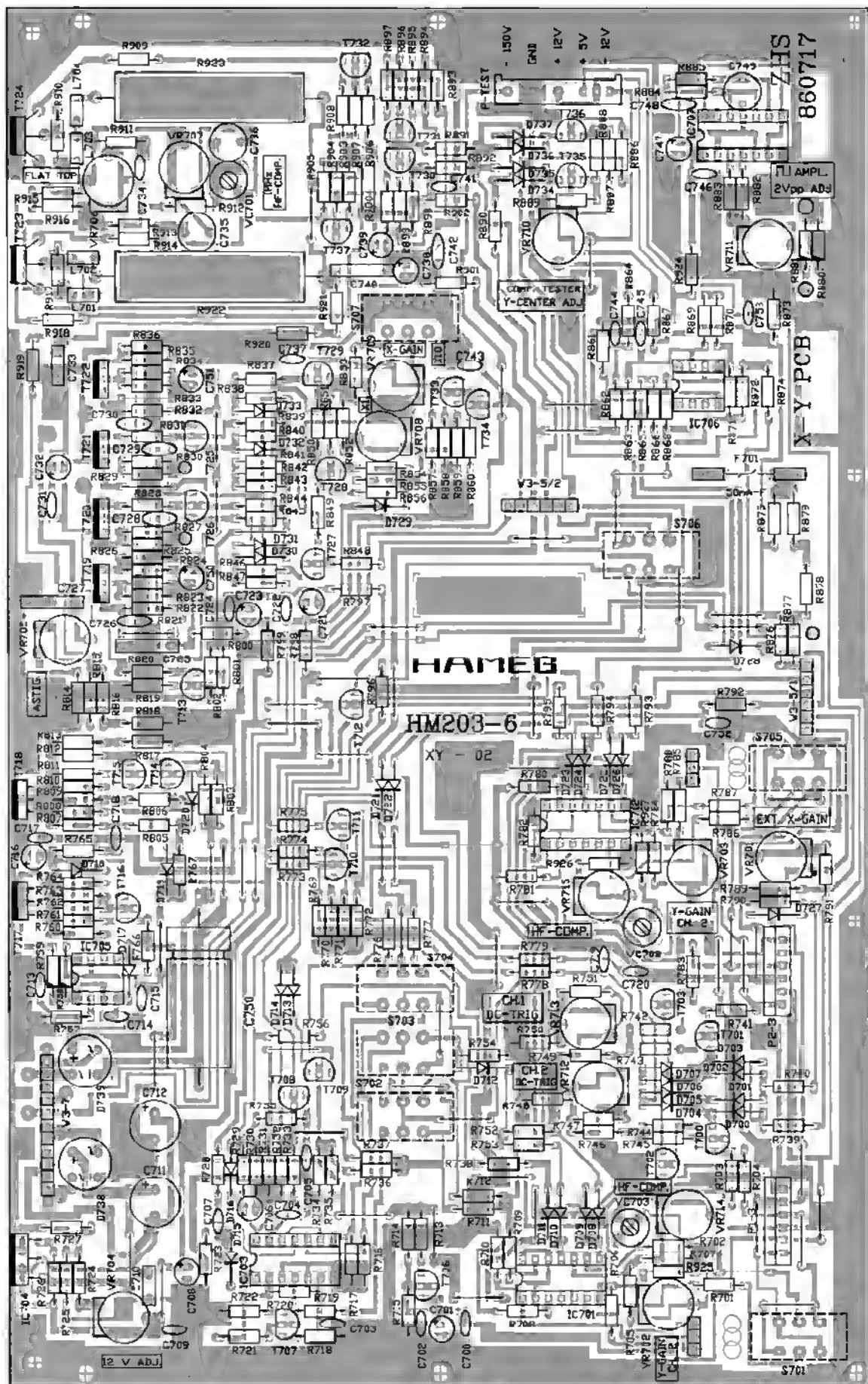
Bestückungsplan EY-Board  
Component Locations EY Board



Y-Zwischenverstärker KI / KII, Kanalschaltung, Kalibrator  
Y Intermediate Amplifier CH I / CH II, Channel Selection, Calibrator

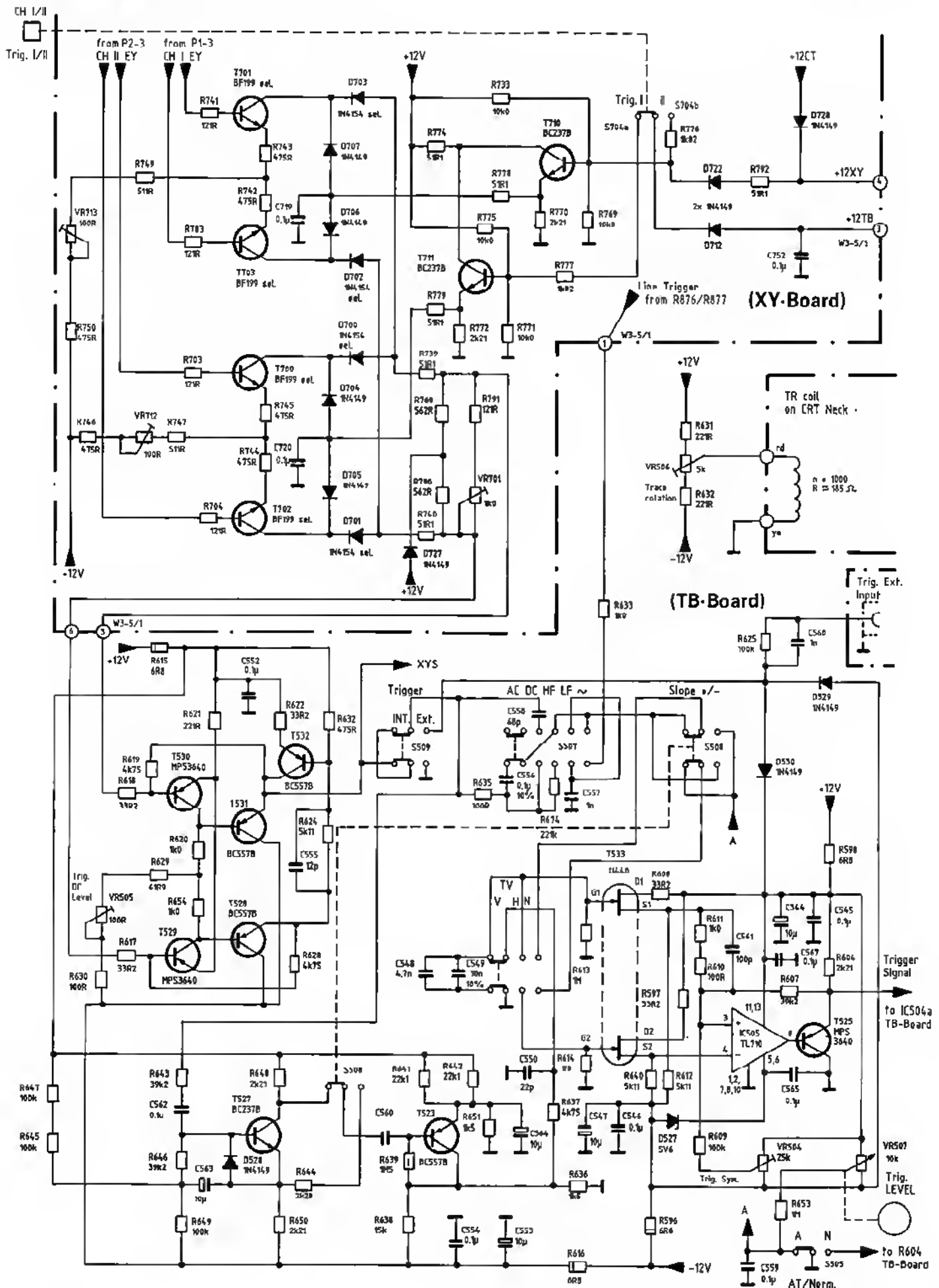
HM203-6

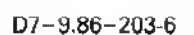


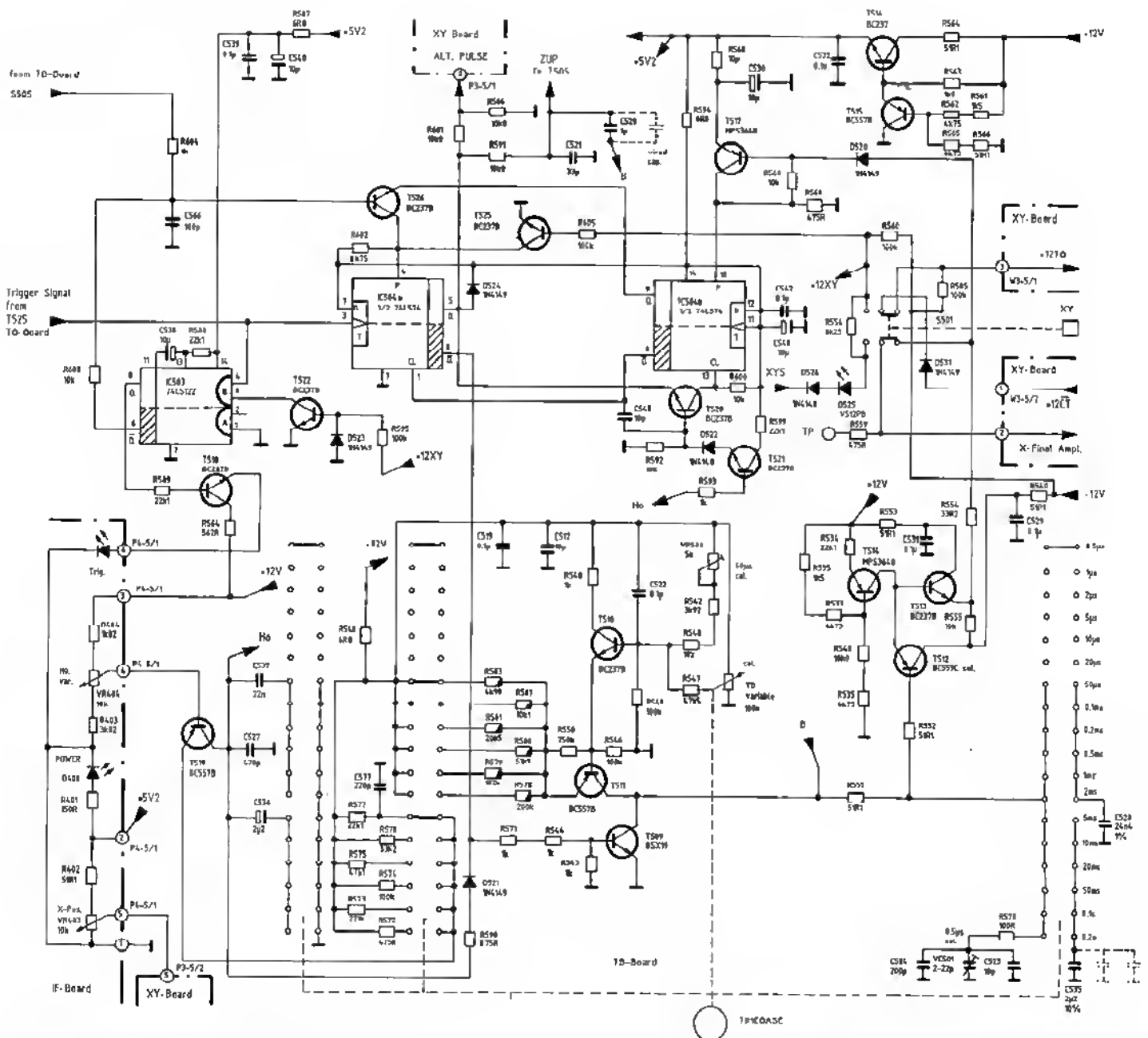

$$+ \frac{1}{2} \frac{A}{\sqrt{2\pi}} \frac{1}{\sqrt{2\pi}}$$

# Trigger-Schaltung, TV-Sync-Separator Trigger Circuit, TV Sync Separator

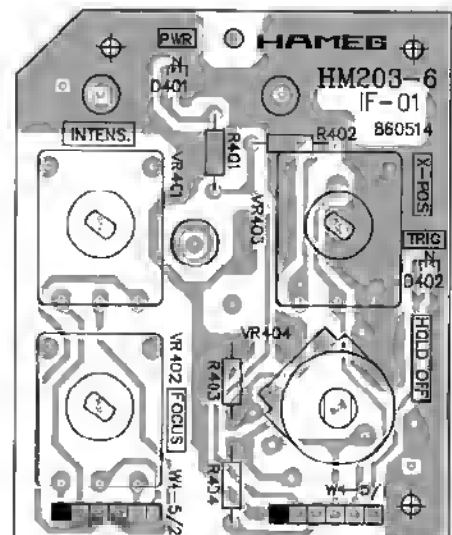
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## Bestückungsplan IF-Board Component Locations IF Board

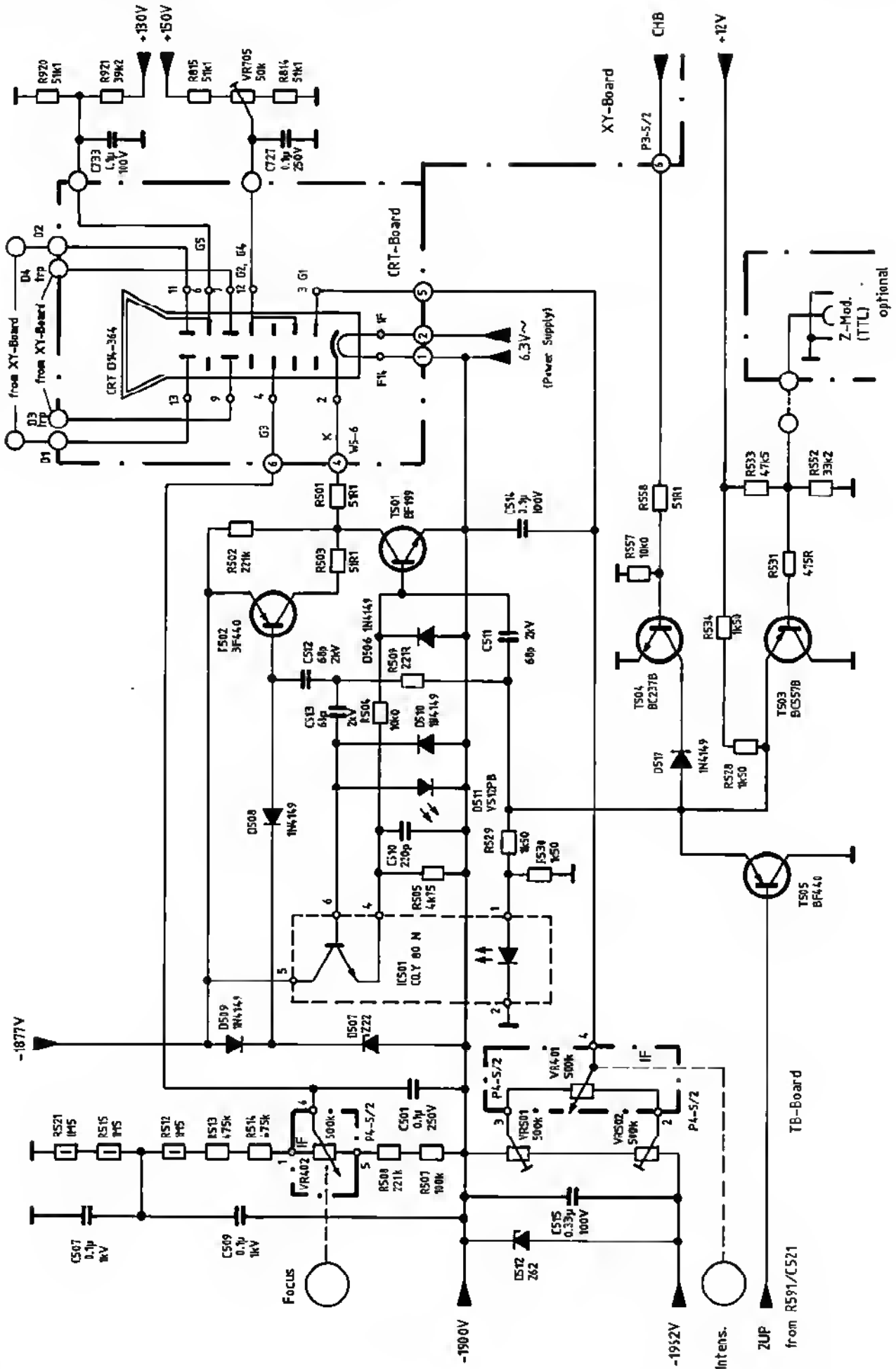


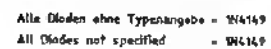
### Y Final Amplifier

HM203-6



D9-9.86-203-6





D11-9.86-203-6